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	Application No.	Applicant(s)	
Notice of Allowability	10/643,760	JO ET AL.	
	Examiner	Art Unit	
	Shih-Chao Chen	2821	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in to or other appropriate communates. This application is sulfi-	nis application. If not include ication will be mailed in due	ed course. THIS
1. This communication is responsive to the I.D.S. filed on Dec	c. 1, 2003.		
2. The allowed claim(s) is/are <u>1-32</u> .			
3. The drawings filed on are accepted by the Examine	r.		
 4. Acknowledgment is made of a claim for foreign priority ura)	e been received. e been received in Application cuments have been received in Application of this communication to file a IENT of this application. itted. Note the attached EXAMes reason(s) why the oath or dest be submitted. Son's Patent Drawing Review (communication) in Amendment / Communication on the header according to 37 CFR sit of BIOLOGICAL MATER	No In this national stage applicate this national stage applicate the stage application and stage application and stage application application and stage application application and stage application applicati	quirements OTICE OF
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 12/1/03 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview Sun Paper No./M 8), 7. ☑ Examiner's An	rmal Patent Application (PTC) nmary (PTO-413), ail Date mendment/Comment ratement of Reasons for Allo	wance

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DETAILED ACTION

Drawings

1. The application have been allowed, formal drawings are required in response to this Office action.

Allowable Subject Matter

- 2. Claims 1-32 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

The primary reason for the allowance of claims 1-27 is the inclusion of the limitations of an antenna comprising: a first vertical surface of the plurality of vertical surfaces for connecting to a signal feed for the antenna; and a second and a third vertical surface of the plurality of vertical surfaces for connecting to ground. It is these limitations found in each of the claims, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

The primary reason for the allowance of claims 28-32 is the inclusion of the limitations of an antenna comprising: a bottom edge of the first surface for connecting to a signal feed; and a bottom edge of the second and the third surfaces for connecting to ground. It is these limitations found in each of the claims, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

Apostolos (U.S. Patent No. 6,373,446) teaches an improved cross-element meander line loaded antenna. Two pairs of triangle-shaped elements are each

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connected at their vertices to form bow-tie elements. The bow-tie elements are arranged orthogonally adjacent a ground plane, reducing shadowing and cross-coupling. When fed in quadrature, the antenna radiates a circularly polarized RF field. However, Apostolos does not disclose or suggest a bottom edge of the first vertical surface for connecting to a signal feed; and a bottom edge of the second and the third vertical surfaces for connecting to ground.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shih-Chao Chen whose telephone number is (571) 272-1819. The examiner can normally be reached on Monday-Friday from 7 AM to 4:30 PM, First Fri. off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shili-Uhao Chen Shih-Chao Chen Primary Examiner Art Unit 2821

SXC

December 10, 2004